

ABSTRACT OF THE DISCLOSURE

A paint ball marker 10 is provided with a rapid loading and firing configuration. A compressed gas is fed to a trigger valve 30 which controls a position of a ram 40. When a trigger 24 is pulled, the trigger valve 30 directs air to the ram 40 so that a piston 44 within the ram 40 causes a unity bracket 50 to move. This unity bracket 50 controls an activator valve 60, causing a charge of compressed gas to be released from a charge chamber 80 to an entrance 91 of the firing chamber 90 where a paint ball is fired from the firing chamber 90. The unity bracket 50 also causes a loading slide 100 to activate a door 110 immediately after firing of the paint ball from the firing chamber 90 so that the door 110 is moved from a closed position to an open position. In the open position a loading hole 96 routes another paint ball into the firing chamber 90. When the unity bracket 50 returns, by further action of the ram 40 and trigger valve 30, compressed gas is allowed to recharge the charge chamber 80 and the door 110 is allowed to return to its biased closed position sealing off the firing chamber 90 with another paint ball therein for future firing. This rapid loading and firing sequence can then be repeated by again toggling the trigger 24.

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